

## LISTING OF CLAIMS

This listing of claims supersedes all previous listings of claims.

1-12. (canceled)

13. (Currently amended) A measurement method using mobile probes comprising:

providing a model of a physical variable, including one of (i) an environmental variable and (ii) a user behavior variable, to a mobile measurement device;

making measurements of the modeled physical variable ~~model-variables~~ with said mobile measurement device ;

evaluating, by said mobile measurement device, new measurements, using said model;  
and

augmenting said model using said *new* measurements.

14. (original) The method of claim 13 wherein said model on said mobile measurement device is augmented.

15. (original) The method of claim 13 wherein a model in a measurement system that provided said model to said mobile measurement device is augmented.

16. (original) The method of claim 13 wherein said model provided to said mobile measurement device comprises a portion of a central measurement system model.

17. (original) The method of claim 13 wherein said evaluating further comprises determining if the new measurements reinforce said model, and said augmenting comprises noting said reinforcement in said model.

18. (original) The method of claim 13 wherein said evaluating further comprises determining if the new measurements detract from said model.

19. (original) The method of claim 18 wherein said evaluating further comprises evaluating the accuracy of a detracting measurement.

20. (original) The method of claim 19 further comprising discarding faulty measurements.

21. (original) The method of claim 19 further comprising replacing existing measurements in said model with measurements that improve said model.

22. (original) The method of claim 19 further comprising adding new measurements to said model when said new measurements improve said model.

23. (original) The method of claim 13 wherein said evaluating further comprises  
determining if data in said model for a location of a new measurement is sufficient, and  
adding said new measurement to said model in response to said model having  
insufficient data for said location of said new measurement.

24. (original) The method of claim 13 wherein said mobile measurement device is a wireless telephone, said variable is an RF field strength at a location and said model is a model of RF field strength for a geographical area.

25. (original) The method of claim 13, wherein said mobile measurement device comprises:  
communication capabilities for communicating said measurements and an augmented  
model to a measurement system;  
computational resources available for carrying out said evaluation; and

measurement capability.

26-53. (canceled)

54. (New) The method of claim 13, wherein the environmental variable includes one of a chemical variable, a toxin variable, a biological variable, a noise variable, and a radiation variable.

55. (New) The method of claim 13, wherein the providing a model of a physical variable to a mobile measurement device includes providing the model over a geographical area.